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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-20-09** **Date: 23-02-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru- 560021
Customer's Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-09 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-02-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.89	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-20-09** **Date: 23-02-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru-560021
Customer's Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-09 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-02-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1173	1173	7.8	92.2	90-100
3	20 mm	5824	6997	46.6	53.4	30-70
4	10 mm	4729	11726	78.2	21.8	10-35
5	4.75 mm	2546	14272	95.1	4.9	0-5
6	Pan	728	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-20-09** **Date: 23-02-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru- 560021
Customer Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-09 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-02-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	423	423	8.5	91.5	90-100
3	10 mm	2537	2960	59.2	40.8	25-55
4	4.75 mm	1636	4596	91.9	8.1	0-10
5	Pan	404	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-02-20-09** **Date: 23-02-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru- 560021
Customer's Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-2018
Sample ID No	:	2018-02-20-09 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-02-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	47	47	4.7	95.3	90-100	90-100	90-100	95-100
3	2.36 mm	166	213	21.3	78.7	60-95	75-100	85-100	95-100
4	1.18 mm	178	391	39.1	60.9	30-70	55-90	75-100	90-100
5	600 micron	251	642	64.2	35.8	15-34	35-59	60-79	80-100
6	300 micron	208	850	85.0	15.0	5-20	8-30	12-40	15-50
7	150 micron	71	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/03/2018

Lab ID	:	**CP-2018-02-28-06**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru- 560021
Customer's Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-2018
Sample ID No	:	2018-02-28-06 /01
Customer ID	:	Concrete Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.23 X 150.14 X 150.26	22556	8.230	525.5	23.3	23.0
2	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.46 X 150.29 X 150.87	22613	8.220	522.4	23.1	
3	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.19 X 150.10 X 150.32	22544	8.230	507.2	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-02-28-06** **Date: 03/03/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to CC roads 10th, 11th, 12th cross roads at Ravindra Nagara in Ward no.13 in Shettyhalli Sub division.
Agency	:	Sri. K. Jagadish, No.3424, 6th cross, Gayathrinagara, Bengaluru- 560021
Customer's Reference	:	EE/DD/WO/232/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-02-2018
Sample ID No	:	2018-02-28-06 /05
Customer ID	:	Concrete Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.38 X 150.34 X 150.35	22608	8.361	526.8	23.3	22.9
2	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.32 X 150.37 X 150.32	22604	8.346	506.3	22.4	
3	Concrete Concrete Pavement	M30	24/02/2018	03/03/2018	150.32 X 150.42 X 150.38	22611	8.339	517.8	22.9	

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